

20030611.qrp v02_n948.qrl.20030611

Date: Wed, 11 Jun 2003 19:03:08 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2948

QRP-L Digest 2948

Topics covered in this issue include:

- 1) [152183] Re: Scrap double sided circuit board
by Chuck Adams <k7qo@commspeed.net>
- 2) [152184] RE: Scrap double sided circuit board
by "Mugleston, Brad" <brad.mugleston@gwl.com>
- 3) [152185] Re: Crystal Sockets
by "Michael A. Ostrowski" <KI8IK@comcast.net>
- 4) [152186] NorCal Keyer Kit arrival [long]
by Chuck Adams <k7qo@commspeed.net>
- 5) [152187] Re: morse program and Linux
by Haines Brown <brownh@hartford-hwp.com>
- 6) [152188] AmQRP website now open
by "George Heron N2APB" <n2apb@erols.com>
- 7) [152189] Fox K0FRP
by alk0frp@attbi.com
- 8) [152190] Re: NorCal Keyer Kit arrival [long]
by David Hinerman <WD8CIV@worldnet.att.net>
- 9) [152191] Re: morse program and Linux
by Ed Lawson <k1vp@grizzly.com>
- 10) [152192] Miniboots
by KC8WBK <cruisenewsnet@yahoo.com>
- 11) [152193] FOR SALE YAESU FT817 QRP
by "David Durant" <n4xce@bellsouth.net>
- 12) [152194] Operating in Thailand: do they still insist on checking rig?
by <mm1esg@compuserve.de>
- 13) [152195] QRP ARCI Contest Certificates
by Randy Foltz <rfoltz@turbonet.com>
- 14) [152196] 6 still open
by "Emmerson Bigguns" <n8ie@woh.rr.com>
- 15) [152197] Morse Clock
by "Steven Weber" <kd1jv@moose.ncia.net>
- 16) [152198] Re: morse program and Linux
by Haines Brown <brownh@hartford-hwp.com>
- 17) [152199] Knob on K2
by "Martin Hartwell" <chartwell@worldnet.att.net>
- 18) [152200] Re: [fpqrp] 6 still open
by "Dennis Ponsness" <wb0wao@hotmail.com>
- 19) [152201] Re: QRP-L digest 2947

- by "Richard H. Arland" <richard.arland@verizon.net>
- 20) [152202] NorCal Keyer non-volatile RAM
by Chuck Adams <k7qo@commspeed.net>
- 21) [152203] Re: NorCal Keyer Kit arrival [long]
by Jeff Logullo <logullo@earthlink.net>
- 22) [152204] Re: NorCal Keyer non-volatile RAM
by "George, W5YR" <w5yr@att.net>
- 23) [152205] Re: QRP ARCI Contest Certificates
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 24) [152206] Re: Morse Clock
by "Sverre Holm" <la3za@qsl.net>
- 25) [152207] Re: morse program and Linux
by Haines Brown <brownh@hartford-hwp.com>
- 26) [152208] G10 PC Board Material
by "Royce Simmons" <w2rbn@prodigy.net>
- 27) [152209] Radio show about the hobby
by Lloyd Lachow <llachow@yahoo.com>
- 28) [152210] FS: 20m/40m SW+ Combo etc.
by "Ed Kessler" <aa3sj@arrl.net>
- 29) [152211] PC Board Material
by "Brad Hernlem" <alihernlem@hotmail.com>
- 30) [152212] Re: Miniboosts
by "Edward Mullin" <kb1hys@hotmail.com>
- 31) [152213] Attention Michael Goins
by "John Burnley" <JBurnley@ifmc.org>
- 32) [152214] Re: QRP ARCI Contest Certificates
by "Ronnie Zoerb" <r.zoerb@worldnet.att.net>
- 33) [152215] Re: QRP ARCI Contest Certificates
by Garie Halstead <khyberpass65@yahoo.com>
- 34) [152216] Re: Miniboosts
by "Bill Linn" <blinn@smgazette.com>
- 35) [152217] on my would like to have list
by Joe Martin <km5cw@arrl.net>
- 36) [152218] NorCal Keyer Kit power consumption
by "David Hinerman" <WD8CIV@worldnet.att.net>
- 37) [152219] Piggi Hunten
by "Jerry Ford" <benlightnd13@mchsi.com>
- 38) [152220] Re: NorCal Keyer Kit power consumption
by "Brian Murrey - KB9BVN" <brian@iquest.net>
- 39) [152221] Field Day coming up soon
by "Karl Larsen" <k5di@msn.com>
- 40) [152222] RE: NorCal Keyer Kit power consumption
by "David Hinerman" <WD8CIV@worldnet.att.net>
- 41) [152223] Re: NorCal Keyer Kit power consumption
by "Tim, N9PUZ" <n9puz@arrl.net>
- 42) [152224] RF Design Software
by Stephen Finch <stevef88@earthlink.net>
- 43) [152225] Re: If you like the Rock-Mite, you'll love the DSW-II (comparison

with K1)
by "Bruce Prior" <n7rr@hotmail.com>
44) [152226] Ouch!
by Alex <kr1st@amsat.org>
45) [152227] Re: Ouch!
by Bill ROWLETT <kc4atu@yahoo.com>
46) [152228] Norcal Keyer Instructions and MS Word
by Allen Jones <w9dz@yahoo.com>
47) [152229] New altoiods tin spotted!!!
by Rob Matherly <w0jrm@arrl.net>
48) [152230] Re: RF Design Software
by "Leon Heller" <leon_heller@hotmail.com>
49) [152231] Re: [QRPP-I] New altoiods tin spotted!!!
by "Brian Murrey - KB9BVN" <brian@iquest.net>
50) [152232] RE: NorCal Keyer Kit power consumption
by "David Hinerman" <WD8CIV@worldnet.att.net>
51) [152233] GPS transmitters question
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
52) [152234] Re: GPS transmitters question
by Noah Lorang <NoahLorang@nc.rr.com>
53) [152235] Re: New altoiods tin spotted!!!
by Bob Nielsen <nielsen@oz.net>

Date: Tue, 10 Jun 2003 23:17:33 +0100
From: Chuck Adams <k7qo@commspeed.net>
To: brad.mugleston@gwl.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152183] Re: Scrap double sided circuit board
Message-ID: <5.2.1.1.0.20030610231448.00b1d820@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>

You might want to go to

<http://www.goldmine-elec.com/>

and look for PC board material there. I have been using them for a couple of years and you can also get the standard sizes for reasonable prices. IMHO. Be sure to note the thickness of the boards. The real thin stuff isn't very sturdy if you are going to make cases, etc. but it works great for ground planes for Manhattan projects and really lightens the weight of the final project.

You didn't say what size the project was so I'm guessing it isn't real large.

FYI

Chuck Adams K7QO k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Tue, 10 Jun 2003 16:25:46 -0600
From: "Mugleston, Brad" <brad.mugleston@gwl.com>
To: Chuck Adams <k7qo@commspeed.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152184] RE: Scrap double sided circuit board
Message-ID: <DAF37305ADE7944EAD8D779A1A6844D502530C94@its-mail3.its.corp.gwl.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thanks,

No the project is really a bunch of smaller projects - I've got the parts
just no boards.

Thanks I'll check with goldmine.

Brad

-----Original Message-----

From: Chuck Adams [mailto:k7qo@commspeed.net]
Sent: Tuesday, June 10, 2003 4:18 PM
To: brad.mugleston@gwl.com; Low Power Amateur Radio Discussion
Subject: Re: Scrap double sided circuit board

>

You might want to go to

<http://www.goldmine-elec.com/>

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of years and you can also get the standard sizes for reasonable prices.
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Be sure to note the thickness of the boards. The real thin stuff isn't very

sturdy if you are going to make cases, etc. but it works great for ground planes
for Manhattan projects and really lightens the weight of the final project.

You didn't say what size the project was so I'm guessing it isn't real large.

FYI

Chuck Adams K7QO k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Tue, 10 Jun 2003 19:06:04 -0400
From: "Michael A. Ostrowski" <KI8IK@comcast.net>
To: qrp-l@Lehigh.EDU
Subject: [152185] Re: Crystal Sockets
Message-ID: <NFBBLKICMLDIENKFMIBCEJKBAA.KI8IK@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Royce -

Dan's Small Parts has them for 2/\$1:
<http://www.danssmallpartsandkits.net/>

There's a flat rate \$6 shipping fee however, not too bad if you order an assortment of parts...

73,
Mike - KI8IK
Saline, MI

Date: Wed, 11 Jun 2003 00:08:59 +0100
From: Chuck Adams <k7qo@commspeed.net>
To: qrp-l@lehigh.edu
Subject: [152186] NorCal Keyer Kit arrival [long]
Message-ID: <5.2.1.1.0.20030610231742.00b29070@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Got my kit in the mail this a.m. from Doug, KI6DS.

Assembly: A+
Parts Quality: A+
Manual: A
Pricing: A+

1. Assembled in just over 30 minutes including taking some pictures. Goes together without any problems. I installed the brown mono cap first just so that I wouldn't forget and do it wrong. :-)

2. Doug had emailed me the manual. Just a note. It was in M/S Word format. Not every one has M/S Office and/or Word installed. Word isn't cheap and it doesn't come with WindowsXP. Notepad is missing the graphics stuff so the schematic won't show up. I had to write a CD and take the CD over to Phyllis' system to read and print the manual. FYI This only an issue with the first kits after Doug woke up too late to catch the mistake.... Been there. Done that.

I measured the power consumption: (mileage may vary)

13.00V	2.68mA
7.60V	2.45mA

This mostly due to the 78L05 regulator. It would be interesting to remove the regulator and use 3 AA batteries. This I will do later. Power consumption will drop down significantly I'm sure. You will want to use a switch to turn the keyer on and off if you run it off batteries in an external case to a xcvr.

3. Manual mentions JHP web site but doesn't explain what that is. Chuck Olson, WB9KZY, and I and some others know but not every one will that gets the kit. :-) Chuck wrote the software and the manual.

4. Speed at start up is 16WPM. You know my views on this. No mention if the speed is kept in non-volatile memory on shutdown, so will check this. I will not be using the speed pot as I like fewer moving parts in my rigs. Most keyers will let you set it via the paddle. There is a speed readout function and you can get the current code speed

from the keyer.

The maximum being 48WPM with the pot and looks like 50WPM with the paddle setting.

That's what the manual says. At 40WPM and up I switch to a keyboard any way. :-)

5. Side tone to a piezo transducer is a square wave with a relatively low pitched tone. Mention is made of an October 1997 QST article for a shaping circuit. Not every one will have this issue so some note on the AmQRP web page may be in order on this and maybe an addition to the manual for later kits to help girls and guys out. The shaping circuit needed if you go without the transducer and feed the side tone to the audio chain of your receiver. Side tone can be disabled also if you monitor your transmitter with the receiver and don't want both at the same time.

The PC board is first rate and the parts are first rate. For \$15 I don't think you can find a better deal on a keyer kit complete. The price point has been set.

And Chuck gets an A+ in my book for the Mode B default. How about an autospace on for the default Chuck? Let's not let them start out with the ability to mess up the spacing between characters.

Beacon mode says that the contents of memory #1 is sent continuously until you hit the dit paddle.

I like the AEA MM3 mode where you set a time spacing between the messages so that you can send automatic CQ DE CALL and listen for an answer. I don't know if you can put enough space at the end of the message to do this you will get a time lag. The memory is 40 characters long and the manual does not say if all 40 characters are sent. A note on this would help in the manual. Are short messages sent without the trailing blanks?

I now have to get the critter installed in the SWL-30+ to test out the questions unanswered and may follow up with tidbits in a few days. Others will also have some nice things to say I'm sure and maybe answers to questions asked and questions not yet thought of.

For now,

dit dit

Chuck Adams K7QO k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Tue, 10 Jun 2003 20:08:48 -0400
From: Haines Brown <brownh@hartford-hwp.com>
To: elbc2@gwi.net
Cc: qrp-1@Lehigh.EDU
Subject: [152187] Re: morse program and Linux
Message-ID: <200306110008.h5B08mPe028664@hartford-hwp.com>

> > Or else, would someone be willing to recommend an alternative Linux
> > morse code program (Farnsworth, variable speed, a way to select which
> > groups of characters to work on, support for prosigns, etc.)?

> Hi Haines,
> ^M
> Well you did not say which flavor of linux you are running..
> I use the following and it works great for my Redhat 8.0 system.
> take a look.
> <http://morseall.org/>

Dave,

Thanks for the suggestion, but my impression was that morseall is a computer interface to replace the keyboard. That is, input to the computer is in terms of morse code tapped out with the mouse rather than with keyboard keys.

But are you suggesting that it also sends random morse code sounds to the computer speaker or sound card?

The reason for my not mentioning which distribution of Linux I am using is that a) It really should not make any difference. For example, one can convert .rpm files to .deb. b) I'm currently using RH 8.0, but am migrating to debian.

--

Haines Brown
brownh@hartford-hwp.com

kb1grm@arrl.net
www.hartford-hwp.com

Date: Tue, 10 Jun 2003 17:17:53 -0700
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>, "NJQRP" <njqrp@njqrp.org>,
"NoVAQRP" <NoVaQRP@topica.com>, "EPA-QRP" <EPA-QRP@yahoogroups.com>
Subject: [152188] AmQRP website now open
Message-ID: <007101c32faf\$0dd597f0\$25116a0a@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

As someone mentioned earlier today, the website of the American QRP Club is now online and available for visiting ...

<http://www.amqrp.org>

We have lots more fleshing out and shuffling around of kitting projects, reference material, etc. from the NJ and NorCal pages, but you'll get a good idea of how things are arranged. The idea was for simplicity and quick access to the ton of material we collectively have.

The most usable sub-pages at the site right now deal with current news & events, how to sign-up to receive HOMEBREWER magazine, and soon-to-be the Projects, Kits and Reference pages ... all accessible from our home page.

So please bear with us as we continue to get our house in order, and please let me know if something from our AmQRP website looks strange when viewed on your computer. It's a challenge sometimes getting a good balance for greatest interoperability on everyone's computers.

73, George N2APB n2apb@amsat.org
AmQRP webmaster

PS: We have a very useful utility also coming soon to the HOMEBREWER page ... it's an automated way for you to enter your name or callsign and immediately have your subscriber status information displayed, including the number of HOMEBREWER magazine issues we have on the books for you. I'll announce when this is ready and operational.

Date: Wed, 11 Jun 2003 00:32:39 +0000
From: alk0frp@attbi.com
To: qrp-1@lehigh.edu
Subject: [152189] Fox K0FRP
Message-ID: <200306110032.h5B0Wd4w007894@rain.CC.Lehigh.EDU>

I am the Fox Sunday and I will be /4 in South Carolina. No 4 el at 82 feetas from home in COLORADO.

BUT I am working on a solution. I will have a good signal but not from my apt with dipole at 20 ft. I was unable to hear either Dave or Alan Sunday so I decided to get a better ant. I will either borrow beam at someones QTH or have the dipole on the CATV tower at 60 ft plus. iWILL DO MY BEST TO HELP YOU HEAR THE fOX/4 IN SC

Aiken SC NW of Augusta Ga. I wil do my best.

Al K0FRP

Date: Tue, 10 Jun 2003 20:45:35 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [152190] Re: NorCal Keyer Kit arrival [long]
Message-ID: <5.1.1.6.1.20030610204059.00b16b50@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>I measured the power consumption: (mileage may vary)
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>This mostly due to the 78L05 regulator. It would be interesting to remove the
>regulator and use 3 AA batteries. This I will do later. Power
>consumption will drop down significantly
>I'm sure. You will want to use a switch to turn the keyer on and off if
>you run it off batteries
>in an external case to a xcvr.

Chuck,

At work I have access to some 3.6V lithium batteries. We use 'em for memory backup in electronic power meters. They have a published capacity of 0.95 Ah. I'm going to try bypassing the regulator and see how that little PIC

keeps up at low voltage. I'm also going to try using a 2N7000 MOSFET for the keying transistor to see if I can save a few microamps of base current. (Although one of the 'tronics guys at work said the switching voltage on the MOSFET might be too high for the PIC at low voltage. That's why I used a socket for the transistor.)

I'll report to the list with my results.

Dave

>3. Manual mentions JHP web site but doesn't explain what that is. Chuck
>Olson, WB9KZY,
>and I and some others know but not every one will that gets the
>kit. :-) Chuck wrote the software
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>
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>
>dit dit
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>
>
>Chuck Adams K7QO k7qo@commspeed.net
><http://www.qsl.net/k7qo> CP-60

Dave Hinerman
WD8CIV@att.net

Date: Wed, 11 Jun 2003 01:30:25 +0100
From: Ed Lawson <k1vp@grizzly.com>
To: brownh@hartford-hwp.com
Cc: qrp-1@Lehigh.EDU
Subject: [152191] Re: morse program and Linux
Message-ID: <20030611013025.04ad7f5a.k1vp@grizzly.com>

Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On Tue, 10 Jun 2003 20:08:48 -0400
Haines Brown <brownh@hartford-hwp.com> wrote:

> a) It really should not make any difference. For
> example, one can convert .rpm files to .deb.

Yes, but the practice is often something else.

b) I'm currently using RH
> 8.0, but am migrating to debian.

Good move. Debian is great. I run the unstable branch on the desktop and it works well overall. There are occasional glitches you need to check for before updating as it is a developmental distro. It does have the best collection of ham radio packages around as far as I can tell. SUSE is second.

You will be able to install the CW tutor software by simply doing an
apt-get install cwcp

Check this page for Debian ham radio packages in unstable:

<http://packages.debian.org/unstable/hamradio/>

Ed Lawson
K1VP

Date: Tue, 10 Jun 2003 18:34:05 -0700 (PDT)
From: KC8WBK <cruisenewsnet@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [152192] Miniboosts
Message-ID: <20030611013405.57555.qmail@web20901.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I got my Miniboosts amp working this evening. My first
qso went from 559 with the 2W from a SW+ to 589 with
the Miniboosts amp on. So it seems to work! There was
no change to the signal tone with or without the amp.
This is Tuesday evening, the bands are dead, I was
lucky to get the 150 mile qso.

I have no wattmeter, so I have no idea what the output is. Can I use the peak voltage detector sketched out in the SW+ instructions to estimate power? Are there any other ways to measure power output?

Also, I have not been able to get my BLT Tuner LED to dim on 40m, has anyone got it to work on 40m? Could be a construction problem.

=====

KC8WBK

<http://www.qsl.net/kc8wbk>

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).

<http://calendar.yahoo.com>

Date: Tue, 10 Jun 2003 20:34:21 -0500
From: "David Durant" <n4xce@bellsouth.net>
To: <qrp-1@Lehigh.EDU>
Subject: [152193] FOR SALE YAESU FT817 QRP
Message-ID: <000701c32fb9\$9589d800\$d5ac3fd0@workstation>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

FOR SALE: Yaesu FT817 QRP Transceiver , general coverage receive ,160 through 440 mhz transmit, box manual mic power cable and 6 , 144 , 440 rubber duck antenna (missing sholder strap \$10 from Yaesu) \$450 contact David N4XCE at 1-251-478-8823 or n4xce@bellsouth.net

Date: Tue, 10 Jun 2003 17:34:53 -0800
From: <mm1esg@compuserve.de>
To: unlisted-recipients;; (no To-header on input)
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152194] Operating in Thailand: do they still insist on checking rig?
Message-ID: <ac4f9d50.9d50ac4f@compuserve.de>
MIME-Version: 1.0
Content-Language: de

Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Hi,

in 3 weeks, I'll fly to Bangkok and stay 2 hours away on the coast in Pattaya. Any advise will be welcome. Right now, I fear the bizarre "inspection" of the transceiver will make operating almost impossible. ** A friend is local - maybe she can write a letter of appeal? As rig, a K1-4 with aTU and a 40/15 m dipole are planned.

Mni tnx es 72,
Chris kf6vci

Date: Tue, 10 Jun 2003 18:33:56 -0700
From: Randy Foltz <rfoltz@turbonet.com>
To: qrp1_post <qrp-1@lehigh.edu>
Subject: [152195] QRP ARCI Contest Certificates
Message-ID: <3EE68704.CD6571AB@turbonet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello, QRP contest operators.

As the QRP ARCI contest chairman I'm pleased to announce that Tom Owens, WB5KHC, has taken over the printing and mailing of the contest certificates. Last Friday he sent out certificates for the Fall QSO Party, the Top Band Sprint, the Holiday Spirits Sprint from 2002 and the Winter Fireside SSB Sprint and Spring QSO Party from 2003. I've received a handful of appreciation notes from recipients and just want to take this opportunity to publicly acknowledge Tom's efforts. He has redesigned the certificate, printed, and mailed over 100 backlogged certificates. We are now caught up thanks to Tom's efforts.

Next time you catch him on the air, give him an attaboy for his good work. I'm sure that with Tom's help, the certificates will stay up to date.

Certificates are awarded in each contest for the top 3 finishers (top 10 in the Spring and Fall QSO Parties),

highest score in each power class, highest score in each band and 80 & 40 m, and 20 - 10 m, and highest score in each state.

You still send the summaries and logs to me. I check them, determine who gets what, and send that to Tom. He prints and mails the certificates.

The next opportunity for QRP ARCI contest certificates will be July 13 in the Summer Homebrew Sprint. I'll put out more info as we get closer.

Once again, thanks for your efforts, Tom.

--
73,
Randy, K7TQ
Moscow, ID
QRP ARCI Contest Chairman

Date: Tue, 10 Jun 2003 22:08:09 -0400
From: "Emmerson Bigguns" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>, "Pigs" <fpqrp-1@mpna.com>
Subject: [152196] 6 still open
Message-ID: <MMEDLKDLONJOAIGICDJAGEJHEGAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just worked N6MM on CW!
DM04 to EM79 QRP style. :-)

72, oo
Dan, N8IE
FPqrp #-6, QRP-1 #1404, FISTS #4985

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.488 / Virus Database: 287 - Release Date: 6/5/2003

Date: Tue, 10 Jun 2003 22:18:52 -0400

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: <qrp-1@lehigh.edu>
Subject: [152197] Morse Clock
Message-ID: <001f01c32fbf\$e61b1760\$dfccfea9@turbotoo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Gang,

Had some free time today -well if you consider putting off other jobs free time, hi- and whipped up a little program to make a Morse output, Real Time Clock. Someone recently asked about such a thing, and I've been thinking about it ever since.

It was a little trickier to do than I thought at first, but sounds like it's keeping time at last - at least in the short run. I'm using a 38,768 KHz watch crystal for the time base, and because of that slow clock speed I'm pretty much stuck with only one Morse output speed, but it's about 19 wpm, which is fairly reasonable for most people. (except all the ones who would want it slower or faster)

To keep it simple, the clock only does 24 hour format. I separate the hours and minutes digits with a "Z" -- figured that was appropriate <g>

What I have to do now is figure out a way to set the time. Right now you have to reset the cpu at exactly 12 noon to set it :-). I want to use an 8 pin cpu, which only gives 3 I/O ports to work with, seeing we need the external crystal osc connections. So, one port is the Morse tone output, one will be send time and the last one set time. I'll figure something out using that combination.

So, why the heck would you want a clock with a Morse output?

Well, I figure it would be neat to build into a rig, so you always have a clock handy. Want to know the time? Push a button and it tells you! Makes a pretty neat conversation piece for your

desk in the office too. And of course, blind hams
might find it nice to have too.

I'll let you all know when we get it squared away.
I imagine more than a few of you will want one!

72,
Steve, KD1JV
White mountains of New Hampshire
"melt Solder"
www.qsl.net/kd1jv/

Date: Tue, 10 Jun 2003 22:26:46 -0400
From: Haines Brown <brownh@hartford-hwp.com>
To: k1vp@grizzly.com
Cc: qrp-l@Lehigh.EDU
Subject: [152198] Re: morse program and Linux
Message-ID: <200306110226.h5B2QkQI029961@hartford-hwp.com>

Ed,

After trying several programs, which all depend on the system speaker
(vs. sound card), it became obvious that I was just not getting sound
out to the speaker. However, I can send a beep to the speaker.

cwtrainer, for example, prints the characters it is sending to the
text field, but no sound from my PC speaker. I've concluded this is a
hdmr issue, not a ham issue, so I'll not pursue it here beyond saying
that my /dev/dsp is globally writable.

Haines Brown

Date: Tue, 10 Jun 2003 22:28:57 -0400
From: "Martin Hartwell" <chartwell@worldnet.att.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [152199] Knob on K2
Message-ID: <LCEBJOKPGPNGOAKECJNGAEEECKAA.chartwell@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all

I saw in yesterdays digest on using an FT100 knob on the K2 as a replacement.

I have found another knob that will work and work well too. It is the one on my new Ten Tec Argo V, I like the feel of it, so I tried it. Looks like a minor adjustment is in order like a little drill work on the new knob. I don't want to make any adjustment on my new TT so am waiting to get to Seiverville to get

a new knob to try, I haven't even priced it yet, waiting for my next contract to put me back to work first. So if anyone wants to try this let us all know what has to be done. I just took a quick look, meaning I took the knob off the TT, and put it on the K2, but saw that it sat further out from the face, my thought at the time was that the hole may have to made a little deeper or the shaft of the K2 cut off, which I don't want to do either.

Marty kd8bj

Date: Wed, 11 Jun 2003 03:00:25 +0000
From: "Dennis Ponsness" <wb0wao@hotmail.com>
To: n8ie@woh.rr.com, qrp-1@lehigh.edu, fpqrp-1@mpna.com
Subject: [152200] Re: [fpqrp] 6 still open
Message-ID: <Law11-F115tkywCWi0K0003619b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Just worked N6MM on CW!
>DM04 to EM79 QRP style. :-)
>

WIIIIIGIIIIII!!!! Man I used to rock on 6m about 10 yrs ago. Wasn't EXACTLY at QRP levels (4 ele beam @ 25' with 150w). I think I was up to around 325 grids and about 2 dozen DXCC countries. Ex-fiancee decided to throw out my 6m cards 'cause she thought it was junk!!!! At least Donna knows that QSL cards are "keepers"!

You will find on the "down side" of the solar cycle that there is more Es to be had and good Es and QRP goes together great. It should be a good challenge to do VUCC on 6m QRP (100 grids is not that hard if you put in some effort). Wahr is not the best antenna for this, nor is a vertical - get a beam (4 ele is good) and stick it up around 15' - 20' and you will work a bunch of 'em. I used to work a lot of the old IC-501's (?) that was a portable SSB/CW rig about the size of a hardback book. They were a couple of watts on SSB and if the band was open, that was enuf. CW is not that common on 6m EXCEPT if you are working aurora and 5w is doable on AU, but

you need a really strong AU opening to do it - K of 7 or better.

72 es oo

Dennis - WB0WAO
VUCC on 6m, 2m es 220 MHz (NOT 222 MHz)
EN84ij Iosco County, Michigan
MultiPig+ #3 K2 #3555 (in production)
NJQRP #329 - FPQRP #-347 - SOC #499
GACW #622 - ARS #1363 - QRP Canada #248
WATPK #2
FISTS # 9299
Charter Member - Michigan DX Association
www.qsl.net/wb0wao
:=)

MSN 8 helps eliminate e-mail viruses. Get 2 months FREE*.
<http://join.msn.com/?page=features/virus>

Date: Tue, 10 Jun 2003 23:35:12 -0400
From: "Richard H. Arland" <richard.arland@verizon.net>
To: "Ed Hare" <ehare@arrl.org>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152201] Re: QRP-L digest 2947
Message-ID: <005701c32fca\$789907a0\$9340fea9@desktop1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

AMEN! Well said, Ed.

Our strength lies in our diversity. There is no point in in-fighting or turf guarding. The NJ QRP-C and NorCal saw a void and moved to fill it. Good for them. I applaud their foresight. The QRP facet of the ham radio hobby will be better off for their combined efforts.

73 Rich K7SZ

> From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
>> Harry S Truman said it best: "There is no limit to what you can get =
> done if you don't care who gets the credit." Let's all support what =
> gets done and let Amateur Radio as a whole take the credit. That really =

> is where it all comes from anyway.

Date: Wed, 11 Jun 2003 04:50:13 +0100
From: Chuck Adams <k7qo@commspeed.net>
To: qrp-l@lehigh.edu
Subject: [152202] NorCal Keyer non-volatile RAM
Message-ID: <5.2.1.1.0.20030611044651.00b292b0@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

The last keying speed is held in non-volatile RAM so that when you do turn it off and come back later it remembered your last speed. So the starting speed is a mute issue.

Mode B works perfectly as I did get the keyer mounted and working in the SWL-30+. Maybe on Thursday I can get some pictures on the web for interested parties. Wednesday is my day to go to the toy store in Phoenix called Fry's, although I've just about got everything now that I need for serious work.

Looking for a calibrated RF Voltmeter to check out a project of mine. Called Boonton today and they wanted \$850 just for the probe so wasn't interested in the RF meter after that. :-)

FYI

Chuck Adams K7QO k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Tue, 10 Jun 2003 23:15:28 -0500
From: Jeff Logullo <logullo@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [152203] Re: NorCal Keyer Kit arrival [long]
Message-ID: <3EE6ACE0.2020407@earthlink.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Before I started soldering my own NorCal Keyer kit last night, I poked around the shelves and found an old treasure: a Curtis 8044 keyer chip (with board and parts) I have had for many years. Unbuilt... and I think unobtainable these days. Amazing to compare the features of this new eight-legged wonder from NorCal to the "old standard". And I'm almost certain that I paid *more* for the Curtis kit over ten years ago.

Chuck makes some excellent observations; I agree with his report card. I'll point out that you can now download a PDF version of the manual from the AmQRP web site:

<http://www.amqrp.org/>

so let's call the manual an A+ as well!

Mine will end up in a standalone case, and will find duty keying any of several tiny rigs. I'm leaving space inside to store my KK5PY "Tee-nee-key". The only problem I've yet to solve is how to make a "cheat sheet" small enough to fit on or inside the case!

Hats off once again to the NorCal gang for another great project. Have a look at the manual to see what \$15 brings -- very cool.

72,
Jeff NOMII

Chuck Adams wrote:

>
> Gang,
>
> Got my kit in the mail this a.m. from Doug, KI6DS.
>
> Assembly: A+
> Parts Quality: A+
> Manual: A
> Pricing: A+

Date: Tue, 10 Jun 2003 23:58:31 -0500
From: "George, W5YR" <w5yr@att.net>
To: <k7qo@commspeed.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [152204] Re: NorCal Keyer non-volatile RAM
Message-ID: <026401c32fd6\$1b513700\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chuck, a friend K0LOA and I have had very satisfactory results using the HP 411A RF Millivoltmeter. It has a top full-scale range of 10 volts and a lower range of 10 millivolts. The frequency range is 500 kHz to 500 MHz with the basic Open-Circuit BNC probe 411A-21E.

After being calibrated with the aid of an HP 436A precision power meter, the instrument follows the attenuator of an HP 606 signal generator to within a small fraction of a dB over the entire voltage range.

These are quite expensive instruments, especially the probes, but if you can locate a good used 411A, I think that your needs would be well satisfied.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

> Looking for a calibrated RF Voltmeter to check out a project of mine.
> Called Boonton today and they wanted \$850 just for the probe so wasn't
> interested in the RF meter after that. :-)

Date: Wed, 11 Jun 2003 00:00:19 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152205] Re: QRP ARCI Contest Certificates
Message-ID: <996A5368-9BC9-11D7-BB99-000A957FF9F2@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v552)
Content-Transfer-Encoding: 7bit

> I've received a handful of appreciation notes from recipients and
> just want to take this opportunity to publicly acknowledge
> Tom's efforts. He has redesigned the certificate, printed,
> and mailed over 100 backlogged certificates. We are now
> caught up thanks to Tom's efforts.
>

Got a pair of these certificates in the post the other day,
and they are *really* sharp! They'll look good in a frame,
hanging on the shack wall. :-)

> Next time you catch him on the air, give him an attaboy for
> his good work. I'm sure that with Tom's help, the
> certificates will stay up to date.
>

Attaboy to *both* of you!

72/73,

Todd AG0T

Date: Wed, 11 Jun 2003 14:07:47 +0200
From: "Sverre Holm" <la3za@qsl.net>
To: <qrp-1@Lehigh.EDU>
Subject: [152206] Re: Morse Clock
Message-ID: <000a01c33012\$12f0c760\$8e00a8c0@Master>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Steve and others,

Fun project with the Morse clock. I happened to give Google "Morse
clock" and found that Leon Williams (VK2DOB) made one a few years ago
with a

SW: <http://www.siliconchip.com.au/html/softw.htm>
PCB: <http://www.siliconchip.com.au/html/pcb00dec.htm>
VK2OB page: <http://www.alphalink.com.au/~lmwill/>

Maybe some ideas can be gotten from them?

--

73,

Sverre

Sverre Holm, LA3ZA
www.qsl.net/la3za

Date: Wed, 11 Jun 2003 07:08:31 -0400
From: Haines Brown <brownh@hartford-hwp.com>
To: WJuergens@t-online.de
Cc: qrp-1@Lehigh.EDU
Subject: [152207] Re: morse program and Linux
Message-ID: <200306111108.h5BB8VoT001395@hartford-hwp.com>

> Haines Brown wrote:
>
> > Or else, would someone be willing to recommend an alternative
> > Linux morse code program (Farnsworth, variable speed, a way to
> > select which groups of characters to work on, support for
> > prosigns, etc.)?
>
> Try unixcw. It has all the features you mentioned. Suse use a very
> old version without soundcard support so better you compile the
> unixcw.tar.gz from the debian ftp server byself. Dont know how the
> other flavours of Linux handle unixcw.

Juergens,

Yes, that did it, thanks. Compiled from a source file on the debian
site (unixcw 2.2) that has soundcard support, and it runs just fine.

The mystery remains why the other programs could not touch my system
speaker, but that's an issue for a different forum.

Haines KB1GRM

Date: Wed, 11 Jun 2003 08:45:50 -0400
From: "Royce Simmons" <w2rbn@prodigy.net>
To: <qrp-1@Lehigh.EDU>
Subject: [152208] G10 PC Board Material
Message-ID: <013401c33017\$682a75a0\$9f37fea9@roycesim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi,

Anyone know of a source for 1/16 thick glass single sided PC board? I need
a piece about 1 x 3 inches to make

a GPS antenna. Of course I will buy a larger piece if I can find one.

Thanks,

Royce

Date: Wed, 11 Jun 2003 06:23:09 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: "Li'l Piggies" <fpqrp-l@mpna.com>, sidebar a <Sidebar@vk2tips.com>,
a low-energy group <qrp-l@lehigh.edu>,
Subject: [152209] Radio show about the hobby
Message-ID: <20030611132309.98130.qmail@web41011.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Politics notwithstanding, here's a link to a lovely,
well done radio show about ham radio...can you say
"national exposure?"

[http://discover.npr.org/features/feature.jhtml?
wfId=1248508](http://discover.npr.org/features/feature.jhtml?wfId=1248508)

(please, if you have strong negative feelings about
this, please send them to identcare@all.com)

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
FPQRP #476 - QRP-L #2415 - SOC #530
Fun = Skill / Power !

Do you Yahoo!?
Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

Date: Wed, 11 Jun 2003 09:31:25 -0400
From: "Ed Kessler" <aa3sj@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [152210] FS: 20m/40m SW+ Combo etc.
Message-ID: <3EE6F6ED.27537.23F4AC5@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Good Morning,

I was going to put this on Ebay but thought perhaps someone on the list might be interested.

For Sale: 20m / 40m SW+ Rigs packaged into a single enclosure with shared controls. Includes a Tick 1 Keyer as well.

I used high quality components to build this rig. The enclosure is a 4.5W x 7L x 2H dicast aluminum enclosure painted a hammertone grey. The tuning pot is a large 3-turn unit. There are two 4PDT switches that switch the unit to 40m or 20m. All controls are on the top of the unit so that it is convenient to use it in a tent or on top of a table looking down. I also built a basic, passive audio filter that one can switch into the audio output line. I find this very helpful with loud signals, especially on 40m at night. I also included a little LED TX indicator to verify transmit. Both the 20m and 40m board are presently set to put out about 1.25 W with 13.8V, around 1W with 12V. Manuals for both SW+ boards included, and instructions for the Tick 1.

Price: \$140.00 plus \$6.00 shipping to CONUS.

No, I'm not selling this to buy a new DSWII. Hi. I was going to use the rig on Field Day, but my plans have changed.

73,
Ed AA3SJ

Date: Wed, 11 Jun 2003 13:34:33 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>

To: qrp-1@lehigh.edu
Cc: brad.mugleston@gwl.com
Subject: [152211] PC Board Material
Message-ID: <Law9-F17Svkjj2SFLWy00009505@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Subject: Scrap double sided circuit board
Mugleston, Brad (brad.mugleston@gwl.com) asked:

>There use to be someone that had access to scrap circuit board. I've got a
>project that I've been meaning to get to and having some material to play
>with would push me forward.

and

Royce Simmons (w2rbn@prodigy.net) said he was looking for
G10 PC Board Material

Brad,

You may be thinking of Sergio Ruiz. At least he was the one who kindly
shipped me a big envelope of the stuff a few a years ago at cost of postage.

In any case, this subject raises a question whose answer would probably be
of interest to a number of people here (at least it would be to me) so
hopefully someone with knowledge and experience in the matter will take the
bait:

How does one recognize the various types of PC board material and what is
the meaning of the designators such as "G10"? Additionally, what are the
salient features and properties of specific common types of material likely
to be encountered by the scrounger/hobbyist or of interest in RF work?

Thanks,

Brad KG6IOE

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<http://join.msn.com/?page=features/featuredemail>

Date: Wed, 11 Jun 2003 09:45:18 -0400
From: "Edward Mullin" <kb1hys@hotmail.com>
To: cruisenewsnet@yahoo.com, qrp-1@Lehigh.EDU

Subject: [152212] Re: Miniboots
Message-ID: <Law12-F48YQYx3G5aYY00008393@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: KC8WBK <cruisenewsnet@yahoo.com>
<SNIP>
>Also, I have not been able to get my BLT Tuner LED to
>dim on 40m, has anyone got it to work on 40m? Could
>be a construction problem.

I had the same issue, (hard tuning on 40) on a multiband Dipole that I was using with a BLT. I trimmed off about 7 Ft of feed line and get good SWR readings (LED goes out) on all the bands I use it for now.

Something to think about.

Good luck es 73's

Ed M. KB1HYS

STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Wed, 11 Jun 2003 08:51:22 -0500
From: "John Burnley" <JBurnley@ifmc.org>
To: <qrp-l@lehigh.edu>
Subject: [152213] Attention Michael Goins
Message-ID: <see6ed9d.052@iaweb02.ifmc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Michael, I tried to send you a return note but it keeps bouncing.
Thanks for the kind words and I hope to see you at one of the other events.

To everyone else, sorry for the bandwidth.

72, John NU0V

Date: Wed, 11 Jun 2003 08:22:43 -0600
From: "Ronnie Zoerb" <r.zoerb@worldnet.att.net>
To: "QRP-L Post messages" <qrp-l@lehigh.edu>
Subject: [152214] Re: QRP ARCI Contest Certificates
Message-ID: <003d01c33024\$ecd0ab00\$5b1a560c@sony>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Would like to add my thanks to Randy and Tom for their efforts to make the ARCI contests very enjoyable. A first class operation, Randy and the certificates are very nice Tom

Thanks!

Ron KI0II

Date: Wed, 11 Jun 2003 07:55:23 -0700 (PDT)
From: Garie Halstead <khyberpass65@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [152215] Re: QRP ARCI Contest Certificates
Message-ID: <20030611145523.61729.qmail@web80505.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Todd Enders <enders@bolshoi.cc.misu.nodak.edu> wrote:

> > I've received a handful of appreciation notes from recipients and
> > just want to take this opportunity to publicly acknowledge
> > Tom's efforts. He has redesigned the certificate, printed,
> > and mailed over 100 backlogged certificates. We are now
> > caught up thanks to Tom's efforts.
> >
> Got a pair of these certificates in the post the other day,
> and they are *really* sharp! They'll look good in a frame,
> hanging on the shack wall. :-)

Same situation here Todd. Was extremely pleased with the 2 certificates I received. Tom did a great job.

> > Next time you catch him on the air, give him an attaboy for
> > his good work. I'm sure that with Tom's help, the
> > certificates will stay up to date.

Will do Randy. And our thanks to your good work also. We really enjoy
all the ARCI operating events.

72, Gary -K8KFJ-
West Virginia
ARCI #10728

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

Date: Wed, 11 Jun 2003 07:47:44 -0700
From: "Bill Linn" <blinn@smgazette.com>
To: <cruisenewsnet@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152216] Re: Miniboosts
Message-ID: <006b01c3302a\$ed377460\$a670ef42@wa7tqk>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I had a similar experience. My antenna is a G5RV (102 ft w/34' 450 ohm
ladder-line, coax fed). When tuning on forty, C2 ran out of capacitance just
as the brilliance of the LED began to dim. Adding a trim-cap (I forget the
exact range, but something like 5 to 75pF) in parallel with C2 gave enough
range to resonate and have a bit left over.

Great little tuner.

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Wed, 11 Jun 2003 10:13:48 -0500
From: Joe Martin <km5cw@arrl.net>
To: qrp-1@Lehigh.edu
Subject: [152217] on my would like to have list
Message-ID: <3EE7472B.D2B5E8ED@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Morning all,

I'm first of all looking forward to getting the DSWII 20 mtr after the 1st of the month<g>the RMs I built have and still are a great source of pleasure for a retired old dude on social security you just can't get more bang for the buck.

My problem is I have a spanish rock station on AM in close proximity that simply overpowers me on 14.060 and 40 mtr it can still be heard in the passband which is very bothersome. It ruins my 20 mtr qrp fun,, they didn't used to be a problem so I don't know what has changed, I have emailed them and politely explained the problem hoping for them to maybe look and see if they are having a problem on their end,, no replies at all..

I added the 1K resistor but it doesn't help in this case.. so hopefully with the DSWII I can move up or down the band and dodge them.

? I am using a folded dipole on my patio in my apt.. do you think making or buying a small vertical might help? Has anyone else that you know of had this kind of problem.

73 de KM5CW/ Joe

Date: Wed, 11 Jun 2003 11:28:13 -0400
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [152218] NorCal Keyer Kit power consumption
Message-ID: <000001c3302e\$12b92be0\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Well, I tried my NorCal Keyer with a small 3.6v lithium battery with disappointing results. The thing doesn't start reliably, even with a new battery. Since this battery is designed for memory backup applications, it's

probably being loaded down with the multi-milliamp load. (Darn.) I did bypass the regulator, BTW.

I -have- made a few tests with a 9V battery, though, so this may be informative:

At idle (on but no key activity): 2.63 or 3 mA (I got the lower value before plugging in my paddddle. I'm not sure why.)

Tune (continuous key-down): 19.89 mA with sidetone on, 4.23 mA with sidetone off

Tune, with 2N7000 in place of PN2222A keying transistor: 3.33 mA with sidetone off

Turning off the sidetone makes a big difference in power consumption, as you'd expect. Also, the NPN keying transistor apparently draws about 0.9 mA in base current. Using the MOSFET pretty much eliminates that.

I'll try to get some more data at different voltages. Chuck mentioned using 3 NiCd cells, and I'm curious how that will work out. I'll try a 3v camera battery, too. The PIC controller itself is supposed to work down to 2 volts, but the switching threshold for the keying transistor may limit how low we can go.

Dave

David Hinerman WD8CIV
wd8civ@worldnet.att.net

Date: Tue, 10 Jun 2003 10:42:29 -0500
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@lehigh.edu>, "FPigs" <fpqrp-l@mpna.com>
Subject: [152219] Piggi Hunten
Message-ID: <004501c32f66\$e6e2d1a0\$0077da0c@mchsi.com>

Well, Run that by me one more time.
I'm sitten on 14.062 again. Anyone got a minute to stop by freq
and swop FP numbers or just say hello??

72 Jerry N0JRN
FP # 546, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. <http://home.mchsi.com/~n0jrn/>
MP + # 8, K 1 # 608, SW 20 +, TT 1340, RM 20 &
40, Tiny Tornado 20, 30, 40, 80, SMK - 1
and so on and so on

Date: Wed, 11 Jun 2003 11:02:03 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <WD8CIV@worldnet.att.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [152220] Re: NorCal Keyer Kit power consumption
Message-ID: <004301c33032\$cd001aa0\$0364030a@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brice posted this yesterday on QRPP-I

Goldmine has it:

TDK Voltage Converter- G6546
Brand new voltage converter converts 3VDC to 9VDC @ 60mA. Size only 1
7/8" x 1 3/16" x 1/4". Made by TDK for a major manufacturer. Use 2
penlight (AA) batteries to operate transistor radios, calculators,
etc., or any electronic device that can operate on 9VDC at up to 60mA.
With hookup diagram (only 3 leads are used). G6546
Manufactured by TDK
Price: \$2.00
<http://sales.goldmine-elec.com/prodinfo.asp?prodid=2064>

Would that work with your little battery?

73 de KB9BVN

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
K1 #1205, NC40A, or SWL Rigs
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

----- Original Message -----

From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, June 11, 2003 10:28 AM
Subject: NorCal Keyer Kit power consumption

> Folks,
>
> Well, I tried my NorCal Keyer with a small 3.6v lithium battery with
> disappointing results. The thing doesn't start reliably, even with a
new
> battery. Since this battery is designed for memory backup
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> probably being loaded down with the multi-milliamp load. (Darn.) I
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> bypass the regulator, BTW.
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> informative:
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mentioned using
> 3 NiCd cells, and I'm curious how that will work out. I'll try a 3v
camera
> battery, too. The PIC controller itself is supposed to work down to
2 volts,
> but the switching threshold for the keying transistor may limit how
low we
> can go.
>
> Dave
>
> -----
> David Hinerman WD8CIV

> wd8civ@worldnet.att.net
>
>
>

Date: Wed, 11 Jun 2003 10:04:01 -0600
From: "Karl Larsen" <k5di@msn.com>
To: qrp-1@lehigh.edu
Subject: [152221] Field Day coming up soon
Message-ID: <BAY3-F39n11NQfVyM4Q000473f9@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi gang, looks like the bands may pick up by June 28th and QRP field day will be a blast again!
I and 2 other QRP operators plan to be at 9,000 feet above sea level with 2 88 foot dipoles fed with 450 ohm line. We will make the antenna's friday next at WF5A's home. He has that fancy litz wire about size 14 that will be perfect. I have a box with a 1/4 mile of bailing rope which we will use to hold them up.

Look for us on all bands using my call k5di.

PS. Hope 10 opens...:-)

73, k5di karl

Help STOP SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Wed, 11 Jun 2003 12:18:07 -0400
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [152222] RE: NorCal Keyer Kit power consumption
Message-ID: <000101c33035\$0add96c0\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Brian,

The little lithium probably can't huff the current to drive this converter. A pair of AAs can, obviously. But I'm looking for a low-loss solution. Stepping 9V down to 5v, as the current design works, is wasting about 10.5 mW ($2.63 \text{ mA} \times 4 \text{ volt drop}$). If I can find a low-voltage source that'll power the keyer directly, without the regulator, I can maximize the battery life. I'm hoping a pair of AA alkalines will do the job.

Now, if they had a converter that would run backwards, to efficiently drop 9V to 5V or 3V without losing 10 mW in the process, that would be worth looking at.

Dave

P.S. Thanks for the tip - I have some other applications that could use a 3V to 9V converter. D.

> TDK Voltage Converter- G6546
> Brand new voltage converter converts 3VDC to 9VDC @ 60mA. Size only 1
> 7/8" x 1 3/16" x 1/4". Made by TDK for a major manufacturer. Use 2
> penlight (AA) batteries to operate transistor radios, calculators,
> etc., or any electronic device that can operate on 9VDC at up to 60mA.
> With hookup diagram (only 3 leads are used). G6546
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> Price: \$2.00
> <http://sales.goldmine-elec.com/prodinfo.asp?prodid=2064>

> Would that work with your little battery?

> 73 de KB9BVN

> =====
> KB9BVN/QRP - New Whiteland IN - EM69WN
> QRP-ARCI #10223 QRP-L #1540 FIST #5695
> FISTS CC #764 - Proud Member ARRL
> K1 #1205, NC40A, or SWL Rigs
> INTO INFAMOUS AF4PS ATTIC DIPOLE
> SOC #400 AND FLYING PIGS QRP #-57
> =====

> ----- Original Message -----

> From: "David Hinerman" <WD8CIV@worldnet.att.net>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Wednesday, June 11, 2003 10:28 AM
> Subject: NorCal Keyer Kit power consumption
>
>
> > Folks,
> >
> > Well, I tried my NorCal Keyer with a small 3.6v lithium battery with
> > disappointing results. The thing doesn't start reliably, even with a
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> > battery. Since this battery is designed for memory backup
> applications, it's
> > probably being loaded down with the multi-milliamp load. (Darn.) I
> did
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> > I -have- made a few tests with a 9V battery, though, so this may be
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> > battery, too. The PIC controller itself is supposed to work down to
> 2 volts,
> > but the switching threshold for the keying transistor may limit how
> low we
> > can go.
> >
> > Dave
> >
> > -----

> > David Hinerman WD8CIV
> > wd8civ@worldnet.att.net
> >
> >
> >
>
>

Date: Wed, 11 Jun 2003 11:16:50 -0500
From: "Tim, N9PUZ" <n9puz@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152223] Re: NorCal Keyer Kit power consumption
Message-ID: <200361111220.230260@EOS>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

On Wed, 11 Jun 2003 11:28:13 -0400, David Hinerman wrote:

>
>Well, I tried my NorCal Keyer with a small 3.6v lithium battery=
with
>disappointing results. The thing doesn't start reliably, even=
with a
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>applications, it's probably being loaded down with the multi-
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>
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>informative:
>
>At idle (on but no key activity): 2.63 or 3 mA (I got the lower
>value before plugging in my paddddle. I'm not sure why.) Tune
>(continuous key-down): 19.89 mA with sidetone on, 4.23 mA with
>sidetone off Tune, with 2N7000 in place of PN2222A keying
>transistor: 3.33 mA with sidetone off

I have a bunch of CR2032 type cells. The Energizer spec sheet

<http://data.energizer.com/datasheets/library/primary/lithium_coiln/cr2032.pdf>

shows the pulse (not continuous) drain depressing the voltage to=
2.6 Volts @
7.3 mA. Is this similar to the type of cell you tried?

Tim, N9PUZ

Date: Wed, 11 Jun 2003 10:23:29 -0600
From: Stephen Finch <stevef88@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [152224] RF Design Software
Message-ID: <3EE75781.7020909@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

I have checked in the archives, but cannot find a thread which discusses rf design software.

I am looking for a free program or inexpensive shareware suitable for designing qrp receiver and transmitter circuits. Any suggestions?

Steve
AI W

--
Stephen C. Finch

28289 Fireweed Drive
Evergreen, CO 80439

Tel: 303-679-1794
Fax: 303-679-1045
Email: stevef88@earthlink.net

Date: Wed, 11 Jun 2003 16:34:24 +0000
From: "Bruce Prior" <n7rr@hotmail.com>
To: unlisted-recipients;; (no To-header on input)
Subject: [152225] Re: If you like the Rock-Mite, you'll love the DSW-II (comparison with K1)
Message-ID: <BAY1-F45FbN4TZyabYT0000fd0f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Chris --

The DSW-II-20 is far more versatile than the Rock-Mite 20, since it covers the entire 20 m band and much more, and in addition, you can regulate the power output with a control in the back from 100 mW (less than the Rock-Mite) to 4 W, much more than the Rock-Mite. In addition, the audio bandwidth of the DSW-II-20 is considerably narrower than the Rock-Mite. The only feature that the Rock-Mite has that is absent from the DSW-II-20 is the automatic switch to straight key mode when a mono plug is inserted into the keyer socket. On the DSW/DSW-II series, you need to set that parameter from keyer to straight key mode each time you turn on the radio if you're not using a keyer paddle or if you're using an external keyer.

The Elecraft K1 is a different story. I own the 4-band version (I was a beta tester for the 4-band module.) as well as an extra 2-band module. I have 40, 30, 20 and 15 m implemented on the 4-band module and 80 and 17 m on the 2-band module. Switching modules is about a 5-minute job, which I've done a number of times on backpacking trips. In practice, I leave home on a wilderness trip with the 80/17 m module installed so I can check into 80 m CW nets at night, and I only install the 4-band module if I want to operate during the daytime on a rest day. For an overnight or day trip, I pack my DSW-80 instead of the K1, since it's lighter and less bulky.

The K1 has several features which are absent from the DSW-II-20:

- choice between A or B iambic keyer modes (only mode B available on the DSW-II-20)
- 2 keyer memories which can be used in beacon mode with programmable delay XIT as well as RIT (only RIT on the DSW-II-20) -- a DXer's essential
- optional internal automatic antenna tuner
- optional internal battery pack
- optional 2-mode tilt stand
- optional 2-level noise blanker
- LCD metering for frequency, receive signal strength, input DC voltage, power output (+ SWR with internal tuner installed)
- non-volatile 3-position bandwidth filter programmable between 200 Hz and 850 Hz
- adjustable sidetone/offset frequency
- adjustable sidetone volume
- spot tone
- internal speaker

I have the internal tuner option on my K1, and I recommend it highly. Except for the future DSW-II-80, perhaps, an antenna tuner isn't really needed for a monoband rig like the DSW-II, since you'd normally carry a monoband antenna with it. For a multiband rig like the K1, I can't praise the internal antenna tuner highly enough. I tried the internal battery pack for my K1, but I chose to disassemble it and use an external power source.

The internal battery system is the only K1 option which I don't recommend. It is awkward to change batteries with it at home, let alone in the field. I much prefer to use a 6-cell external battery holder for size AA cells which I got at RadioShack. Even though the K1 tilt stand is fairly heavy, I still recommend it for wilderness trips, since its high mode allows for convenient operation in a variety of cramped or awkward operating situations. I routinely use the tilt stand in its low mode for home operation. I also have installed the optional noise blanker in my K1. I am fortunate to live in an electrically quiet area, so I haven't really tested the K1 noise blanker significantly. I intend to do so this summer, since I'll be doing some mobiling with the K1. The K1 internal speaker is especially useful on a long backpacking trip. It allows me to monitor, say, a CW net while I'm busy with camp chores. With the DSW/DSW II series, I have to stay glued to the headphones all the time the radio is on. That's why I suggested that DSW or DSW-II owners carry a small external speaker with a built-in audio amplifier + a power supply like a 9 V battery.

The biggest advantage of the DSW-II-20 over the K1 is that the former covers the entire band and beyond, whereas the K1 only covers a bit more than the CW portion of 20 m. In addition, the DSW-II-20 can easily be modified with the addition of a single inductor so that CW/USB cross-mode operation is practical. The K1 receives only LSB, and modification is impractical. If the K1 had the DSW/DSW-II digital oscillator system or something similar, it would be the stand-out obvious choice for most QRP field operation. If you want a digital oscillator plus all of the K1 features, build a K2, but don't plan to take your K2 on a long backpacking trip! The lack of a visual readout on the DSW/DSW-II series is actually advantageous: it opens to those radios to white cane operators, and makes operation in a dark tent or in a power-outage situation practical for sighted amateurs. (The stock K1 LCD display is not backlighted, although some owners have added a backlight.) The Rock-Mite is also easily useable by blind amateurs.

Having said all of this, the thrill of actually operating a rig as simple as the Rock-Mite is wonderful. If you've never built a radio from a kit, the Rock-Mite is a wonderful introduction. All I'm saying is that once you dipped your toes into the kit-building water, you'll no doubt then want to take the plunge and build a better-performing radio like a DSW-II or a K1, or both.

73, Bruce Prior N7RR

Mni tnx, dr OM Bruce: I value your article & report!

How well you you think the DSW II stands up versus its peers? RH 20, K1 on 20 m?

Vy 72,
Chris kf6vci

Add photos to your e-mail with MSN 8. Get 2 months FREE*.
<http://join.msn.com/?page=features/featuredemail>

Date: Wed, 11 Jun 2003 12:45:08 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152226] Ouch!
Message-ID: <3EE75C94.476C7B03@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Ouch!

<http://energycommerce.house.gov/108/Hearings/06112003hearing951/hearing.htm>

The mic is still open. I wanted to listen to the Haney testimony on the spectrum protection act. However I was late, and was treated on private conversations obviously not meant to be public.

73,

--Alex KR1ST

Date: Wed, 11 Jun 2003 10:00:30 -0700 (PDT)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: kr1st@amsat.org,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152227] Re: Ouch!
Message-ID: <20030611170030.24284.qmail@web14202.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

For those of us who do not have a sound card on the machine at work, a little recap plse.

73 Bill kc4atu

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

Date: Wed, 11 Jun 2003 10:21:17 -0700 (PDT)
From: Allen Jones <w9dz@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [152228] Norcal Keyer Instructions and MS Word
Message-ID: <20030611172117.61266.qmail@web14103.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Regarding K7QO's post regarding MS Word; Microsoft has
a free viewer for Microsoft Word that can be
downloaded from their site.

<http://office.microsoft.com/downloads/2000/wd97vwr32.aspx>

I don't have access to the Norcal doc file but the
viewer should work. My employer installs it on all
corporate workstations where a user has no need to
create documents.

Allen Jones - W9DZ

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

Date: Wed, 11 Jun 2003 12:30:32 -0500
From: Rob Matherly <w0jrm@arrl.net>
To: qrp-1@lehigh.edu, fpqrp-1@fpqrp.com, qrpp-i@yahoogroups.com
Subject: [152229] New altoiods tin spotted!!!
Message-ID: <200306111230.32596.w0jrm@arrl.net>
Content-Type: text/plain;
charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

I spotted a new type of altoiods tin at work the other day. It's circular=
,=20

about the height of a snuff can, and close to the diameter of a tuna can.

Who's going to be the first to attempt to build a tuna tin rig in one of=20 these? :^)

72/73/oo
Rob, w0jrm

Date: Wed, 11 Jun 2003 17:33:41 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: stevef88@earthlink.net, qrp-1@Lehigh.EDU
Subject: [152230] Re: RF Design Software
Message-ID: <Law15-F861E9GQvnbEG0009c485@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Stephen Finch <stevef88@earthlink.net>
>Reply-To: stevef88@earthlink.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: RF Design Software
>Date: Wed, 11 Jun 2003 10:23:29 -0600

>
>I have checked in the archives, but cannot find a thread which discusses
>rf design software.

>
>I am looking for a free program or inexpensive shareware suitable for
>designing qrp receiver and transmitter circuits. Any suggestions?

I find ELSIE very useful for filters. The free version will be OK for most amateur designs.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Hotmail messages direct to your mobile phone <http://www.msn.co.uk/msnmobile>

Date: Wed, 11 Jun 2003 12:36:28 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <qrp-1@lehigh.edu>, <fpqrp-1@fpqrp.com>, <qrpp-i@yahoogroups.com>, "Rob Matherly" <w0jrm@arrl.net>
Subject: [152231] Re: [QRPP-I] New altoiods tin spotted!!!
Message-ID: <000d01c3303f\$fe88d8c0\$0364030a@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I built a 10w dummy load in one already.

Kewl

I also hide my Skoal in one so my wife doesn't find it and beat me.

----- Original Message -----

From: "Rob Matherly" <w0jrm@arrl.net>
To: <qrp-1@lehigh.edu>; <fpqrp-1@fpqrp.com>; <qrpp-i@yahoogroups.com>
Sent: Wednesday, June 11, 2003 12:30 PM
Subject: [QRPP-I] New altoiods tin spotted!!!

> I spotted a new type of altoids tin at work the other day. It's
circular,
> about the height of a snuff can, and close to the diameter of a tuna
can.

>
> Who's going to be the first to attempt to build a tuna tin rig in
one of
> these? :^)

>
> 72/73/oo
> Rob, w0jrm

>
> ----- Yahoo! Groups

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Questions.

> <http://us.click.yahoo.com/Lj3uPC/Me7FAA/ySSFAA/ELTo1B/TM>

> -----
~~~>

>  
> To unsubscribe from this group, send an email to:  
> QRPP-I-unsubscribe@yahoogroups.com  
>

> Check out what's new at the  
> QRPp International Radio Club's Web site:  
> <http://www.QRPp-I.com>  
>  
>  
>  
> Your use of Yahoo! Groups is subject to  
<http://docs.yahoo.com/info/terms/>  
>  
>  
>  
>

-----  
Date: Wed, 11 Jun 2003 13:50:06 -0400  
From: "David Hinerman" <WD8CIV@worldnet.att.net>  
To: "qrp-1" <qrp-1@lehigh.edu>  
Subject: [152232] RE: NorCal Keyer Kit power consumption  
Message-ID: <000201c33041\$e4d1d470\$7a032a0a@nyroc.ametek.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> >Well, I tried my NorCal Keyer with a small 3.6v lithium battery with  
> >disappointing results. The thing doesn't start reliably, even with a  
> >new battery. Since this battery is designed for memory backup  
> >applications, it's probably being loaded down with the multi-  
> >milliamp load. (Darn.) I did bypass the regulator, BTW.  
> >  
> >I -have- made a few tests with a 9V battery, though, so this may be  
> >informative:  
> >  
> >At idle (on but no key activity): 2.63 or 3 mA (I got the lower  
> >value before plugging in my padddle. I'm not sure why.) Tune  
> >(continuous key-down): 19.89 mA with sidetone on, 4.23 mA with  
> >sidetone off Tune, with 2N7000 in place of PN2222A keying  
> >transistor: 3.33 mA with sidetone off  
> >  
> I have a bunch of CR2032 type cells. The Energizer spec sheet  
> >  
> <[http://data.energizer.com/datasheets/library/primary/lithium\\_coin/cr2032.pdf](http://data.energizer.com/datasheets/library/primary/lithium_coin/cr2032.pdf)>  
> >  
> shows the pulse (not continuous) drain depressing the voltage to 2.6 Volts

@

> 7.3 mA. Is this similar to the type of cell you tried?

Tim,

Here's what I was using:

<[http://www.tadiranbat.com/specs6/tl\\_5276w.htm](http://www.tadiranbat.com/specs6/tl_5276w.htm)>

I don't know how similar this is to the coin cells. Both are used for memory backup, which is a long slow discharge process. But I've seen the CR2032 used in applications that have a higher current demand. With the menu sidetone in the keyer, it's possible the peak currents could drag the voltage down low enough to confuse the processor.

In my testing, it's possible the milliammeter (an old Fluke bench DMM) I had in series with the battery was just a bit too much resistance. I tried hooking the battery direct and it starts up, but if it tries to send anything with the sidetone I can hear the volume fading. Even with the sidetone turned off, it still beeps for menu mode. That seems to be more than the battery wants to support.

I just ran a voltage series with a nice, stiff power supply. Here are the results. (These are all with sidetone off. I didn't try to measure current while the menu tones were playing.) I hooked an LED with a 270 ohm resistor in series with a 5V supply to simulate a rig for keying. In the "Keyed" column, Y means the light blinked in some semblance of properly timed dits and dahs. In the "Sidetone" column, a Y means I could hear the menu tone. All other columns are supply current measurements. All readings were without the regulator in the circuit.

(Best if viewed in a fixed-width font)

Idle....Tune,PN2222A....Tune,2N7000....Keyed,PN2222A....Keyed,2N7000....Side  
tone

|      |       |        |        |   |   |
|------|-------|--------|--------|---|---|
| 2.0V | 32uA  | 2.06mA | n/a    | Y | N |
| N    |       |        |        |   |   |
| 2.5V | 0.2uA | 0.78mA | 0.39mA | Y | N |
| Y    |       |        |        |   |   |
| 3.0V | 0.2uA | 0.94mA | 0.44mA | Y | Y |
| Y    |       |        |        |   |   |
| 3.5V | 0.3uA | 1.12mA | 0.49mA | Y | Y |
| Y    |       |        |        |   |   |
| 4.0V | 0.3uA | 1.29mA | 0.66mA | Y | Y |
| Y    |       |        |        |   |   |
| 4.5V | 0.4uA | 1.48mA | 0.63mA | Y | Y |
| Y    |       |        |        |   |   |
| 5.0V | 0.4uA | 1.66mA | 0.69mA | Y | Y |
| Y    |       |        |        |   |   |



It looks like for low current consumption, the 2N7000 is the keying transistor to use. For low voltage, the stock PN2222A transistor is a better choice. Removing the regulator saves quite a bit of current. as soon as I can locate some batteries, I'll try them out.

Dave

-----  
Date: Wed, 11 Jun 2003 11:54:51 -0600 (CST)  
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Cc: Brian Buydens <brian.buydens@usask.ca>  
Subject: [152233] GPS transmitters question  
Message-ID: <Pine.OSF.4.53.0306111145460.34585@duke.usask.ca>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; charset=US-ASCII

This may be off-topic for some readers but I hope not irritatingly so. Over the weekend a Saskatchewan farmer got his left hand caught in a piece of farm machinery on Friday. He was trapped all weekend and finally got free by cutting off two of his fingers with a jack-knife. I heard his interview on CBC radio today.

Anyway he speculated there should be some sort of device that a person could wear that could signal someone else if there is trouble and also broadcast the person's location. It has to be easily worn. He had a cell phone but it was in his truck and he couldn't reach it.

Since this is the smartest group of radio-buffs I know I thought someone might know of such a device.

If anyone is interested in the interview it can be found at:

<http://Sask.cbc.ca/regional/servlet/View?filename=osiowy030611>

Brian Buydens  
Veterinary Electronic Data Specialist  
Computing Services, University of Saskatchewan  
email: Brian.Buydens@usask.ca  
<http://duke.usask.ca/~buydens>  
VE5RDV

-----  
I am a proud citizen of "Soviet Canuckistan"

-----  
Date: Wed, 11 Jun 2003 14:03:21 -0400  
From: Noah Lorang <NoahLorang@nc.rr.com>  
To: buydens@duke.usask.ca, qrp-1@lehigh.edu  
Subject: [152234] Re: GPS transmitters question  
Message-ID: <5.1.0.14.0.200306111135851.00b05c68@pop-server.nc.rr.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Sure.

There's something called a personal ELT (or PLB-personal locator beacon). ELT stands for "Emergency Locator Transmitter" and is most commonly on aircraft and boats to broadcast a signal when they go down. With aircraft, a satellite hears the signal and a search team goes out (interestingly enough, those MARS/CAP mods you hear about? The CAP part of that is the Civil Air Patrol, which does about 85% of the search and rescue for ELT calls that the Air Force gets).

It doesn't actually broadcast GPS coordinates (though a new version does, not widely used), but by using satellites, aircraft, and ground teams they can track down the signal pretty successfully.

More information on this can be found in the book "Transmitter Hunting: Radio Direction Finding Simplified".

Noah

At 11:54 AM 6/11/2003 -0600, you wrote:

>This may be off-topic for some readers but I hope not irritatingly so.  
>Over the weekend a Saskatchewan farmer got his left hand caught in a piece  
>of farm machinery on Friday. He was trapped all weekend and finally got  
>free by cutting off two of his fingers with a jack-knife. I heard his  
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>

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>  
><http://Sask.cbc.ca/regional/servlet/View?filename=osiowy030611>  
>  
>  
>Brian Buydens  
>Veterinary Electronic Data Specialist  
>Computing Services, University of Saskatchewan  
>email: [Brian.Buydens@usask.ca](mailto:Brian.Buydens@usask.ca)  
><http://duke.usask.ca/~buydens>  
>VE5RDV  
>  
>-----  
>I am a proud citizen of "Soviet Canuckistan"

-----  
Date: Wed, 11 Jun 2003 11:16:13 -0700  
From: Bob Nielsen <[nielsen@oz.net](mailto:nielsen@oz.net)>  
To: Low Power Amateur Radio Discussion <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [152235] Re: New altoiods tin spotted!!!  
Message-ID: <20030611181613.GA9586@n7xy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

On Wed, Jun 11, 2003 at 12:30:32PM -0500, Rob Matherly wrote:  
> I spotted a new type of altoiods tin at work the other day. It's circular,  
> about the height of a snuff can, and close to the diameter of a tuna can.  
>  
> Who's going to be the first to attempt to build a tuna tin rig in one of  
> these? :^)  
>  
> 72/73/oo  
> Rob, w0jrm

Maybe one could fit a small key into the space at the edge of the lid  
marked "press".

--

Bob Nielsen, N7XY  
Bainbridge Island, WA

[n7xy@n7xy.net](mailto:n7xy@n7xy.net)  
<http://www.n7xy.net>

IOTA NA-065, USI WA-028S

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End of QRP-L Digest 2948

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